

ABSTRACT

A multi-layered pipe of arbitrary length and cross-section is produced by co-extrusion of a lower polyolefin (C_2 - C_4) outer body over the exterior surface of a tubular core of randomly, partially randomly, or blocky chlorinated lower polyolefin, the core having a wall thickness, measured in the radial direction, in the range from about 0.025 mm to 5 mm. The tubular core is coextensive with essentially the entire length of the pipe. The tubular core comprises a major proportion by weight of the randomly chlorinated polyolefin (r-CPO), or, partially randomly chlorinated polyolefin (pr-CPO), or, a blocky chlorinated polyolefin (b-CPO), any of which may be blended with a minor proportion by weight of a blending ingredient. The r-CPO, pr-CPO or b-CPO, or a blend thereof, each has an extrusion temperature in the same range as that for the corresponding non-halogenated polyolefin, namely in the range from about 150°C to 250°C. In a preferred embodiment, the outer surface of the core is directly, cohesively bonded to the outer layer's inner surface without an adhesive material; in another embodiment, the core is bonded to an intermediate adhesive layer, the inner surface of which is bonded to the outer surface of the core.